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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/669,601	09/23/2003	Samir S. Soliman	030161	5675
23696	7590	08/09/2006	EXAMINER	
QUALCOMM INCORPORATED 5775 MOREHOUSE DR. SAN DIEGO, CA 92121			AKHAVANNIK, HADI	
			ART UNIT	PAPER NUMBER
			2624	

DATE MAILED: 08/09/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/669,601	Applicant(s) SOLIMAN, SAMIR S.	
	Examiner Hadi Akhavannik	Art Unit 2624	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 September 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>4/1/05, 4/12/04</u> . | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Drawings Objection

1. The informal drawings are not of sufficient quality to permit examination. Accordingly, replacement drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to this Office action. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action.

Figure 1 is a hand drawn drawing. Please submit a non-hand drawn drawing.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-21 rejected under 35 U.S.C. 103(a) as being unpatentable over Aarnio (6522889).

Regarding claim 1, Aarnio discloses a method of determining location information of a wireless device, the method comprising: acquiring an image of a scene (see column 3 lines 15-20, which discloses obtaining a digital image of a scene);

transmitting the prepared image to a processing center configured to process the prepared image to obtain the location information of the wireless device and receiving from the processing center the location information (see figure 3 and column 3 lines 40-49 which discloses transmitting the acquired image. In order to transmit the image the system must prepare the image for transmission. Column 3 line 50 to column 4 line 19 disclose processing the image by using an OCR server and then identifying the location to determine if there is a match in the database.);

and displaying the location information (column 4 lines 22-24 disclose displaying the location information in the form of a map or text message).

Aarnio does not explicitly disclose preparing the acquired image for transmission although Aarnio does disclose using a digital camera to acquire the picture of an area.

Watanabe (5528293), discloses a digital camera that compresses the image of an object into a jpeg format. This functions to prepare the acquired image for transmission (see column 2 lines 27-47, which discloses compressing the image).

It would have been obvious at the time of the invention to one of ordinary skill in the art to include in Aarnio an image preparing means as taught by Watanabe. The reason for the combination is because it makes for a more robust system that can more efficiently transmit data because a compressed image size is smaller than a non-compressed image (see motivation by Watanabe in column 2 lines 27-48).

Regarding claim 2, the combination of Aarnio and Watanabe disclose image compression (see rejection of claim 1 and column 2 lines 27-47 of Watanabe, which disclose image compression).

Regarding claim 3, please see the rejection of claim 1 above which discloses all aspects of claim 3.

Regarding claim 4, Aarnio discloses processing the acquired image to obtain the location information of the wireless device using at least one algorithm selected from the group consisting of computer vision, image correlation, pattern recognition, image classification, and image recognition (Aarnio discloses using pattern recognition and image comparison in column 4 lines 15-20).

Regarding claim 5, Aarnio discloses displaying the location (see column 4 lines 22-26).

Regarding claim 6, Aarnio discloses a method further comprising receiving aiding information from a remote data center (the examiner is interpreting aiding information to mean helpful location information near the operators locations, see column 6 lines 33-45, which discloses receiving gasoline information that is proximate to a user).

Regarding claim 7, the rejection of claim 6 discloses receiving a location information of gas stations. The location information becomes a database.

Regarding claims 8-11, these are the wireless device claims of claims 1-2 and Aarnio discloses a wireless device in figure 1.

Regarding claim 12-13, these are the wireless device claims of claims 6-7. Please see the rejection of claims 6-7 and figure 1 of Aarnio above.

Regarding claim 14, Aarnio discloses a wireless device of claim 12, wherein the transmitter is further configured to transmit the location information to a requesting entity (column 4 lines 6-55 disclose transmitting location information to the mobile device).

Regarding claims 15-21, please see the rejection of claims 1-7 as they disclose all aspects of claims 15-21.

3. Claims 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Aarnio in view of Kim (6278884).

Aarnio discloses all aspects of claim 22 except that he does not disclose a panic button for initiating a location information process; an image capturing device with an adjustable head for acquiring at least one image of a scene in response to activation of the panic button. Please note that Aarnio discloses that the camera is located on the portable device. By adjusting the way the user holds the camera the head location becomes adjusted. Therefore, the head is adjustable.

Kim discloses a panic button for initiating a location information process (see Kim, column 3 lines 52-64 which discloses acquiring at least one image of a scene in response to activation of the panic button.

It would have been obvious at the time of the invention to one of ordinary skill in the art to include in Aarnio a panic button. The reason for the combination is because it adds an added layer of security to the overall system that allows the system to quickly capture a location by pressing the panic button.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kepler (6748225, discloses a system for locating a mobile device by searching a database).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hadi Akhavannik whose telephone number is 571-272-8622. The examiner can normally be reached on 10:30-7:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Mancuso can be reached on (571)272-7695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

7/28/06
HA



JOSEPH MANCUSO
SUPERVISORY PATENT EXAMINER